

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-82 (canceled).

31 Claim 83 (previously added): A micro-sonicator for spore or cell lysis comprising:
a container having a cavity therein adapted to contain spore or cell samples,
a quantity of ultrasonic transmission media in said cavity,
at least a membrane positioned to cover said cavity,
piezoelectric material positioned on said membrane, and
means for causing flexing of said piezoelectric material and vibration of said membrane
thereby causing ultrasonic excitation of the transmission media adapted to cause lysis of
spore or cell samples in said cavity.

Claim 84 (previously added): In a micro-fluidic system, the improvement comprising:
a micro-sonicator for spore and cell lysis using ultrasonic excitation of the spore or cell,
said micro-sonicator including a container having a cavity therein and containing
ultrasonic transmission media, a membrane positioned over said cavity, and means for
causing vibration of said membrane producing ultrasonic excitation of spore or cell
located in said cavity.

Claim 85 (previously added): A device for spore or cell lysis comprising:
a container having a chamber for holding spore or cell samples,
a quantity of ultrasonic transmission media in said chamber,
a membrane forming at least one wall of the chamber, and
an ultrasonic transducer in contact with said membrane for transmitting ultrasonic waves
to the chamber.
